



Event

MPTS IJET DIV 4101 - DIV 4201 T-45

Mission

DIVISION FORMATION



ORM



DIV 4101-4201

- **OPERATIONAL REQUIREMENTS / LIMITATIONS**
 - **CREW REST/ CREW DAY / WORK WEEK**
 - **WARM-UP ELIGIBILITY**
 - **PREVIOUS FLIGHT COMPLETE?**
 - **IP CURRENCY**
 - **READ AND INITIAL**

- **HUMAN FACTORS**
 - **LIFE STRESSORS / EXTERNAL FACTORS/ PERSONAL PROBLEMS**
 - **MEDICAL STATUS**
 - **CREW DAY**
 - **CREW REST**
 - **NOURISHMENT**
 - **HYDRATION**

- **HAZARDS AND CONTROLS**
 - **ROUTINE**
 - **WEATHER**
 - **CURRENT OBSERVATIONS AND FORECASTS**
 - **CROSSWINDS**
 - **FUEL CONSIDERATIONS**



TTO



DIV 4101-4201

- **WHO WILL CALL A TTO?**
- **WHAT SITUATIONS WILL THE TTO BE CALLED?**
 - **SAFETY**
 - **CONFUSION**
 - **MISUNDERSTANDING**
- **IP RESPONSIBILITIES**
 - **RECOGNIZE THE NEED FOR A TTO**
 - **EXPLANATION / INSTRUCTION AS NECESSARY**
 - **DOCUMENTATION ON ATF**
- **WHEN AND HOW WILL TRAINING RESUME?**



SSR/DISCUSS ITEMS



DIV 4101-4201

- **SPECIAL SYLLABUS REQUIRMENTS:**
NONE
- **PREREQUISITES:**
 - **DIV 1102**
 - **FRM 4501**
- **DISCUSS ITEMS:**
DIV 4101 - 4104
 - **NATOPS/SOP/EP QOD**



SYLLABUS NOTES



DIV 4101-4201

- A. THESE EVENTS SHALL BE FLOWN FROM THE FRONT COCKPIT.**
- B. DIV 41 BLOCK : TWO FLIGHTS IN THIS BLOCK MAY BE COMPLETED AS THREE-PLANE FLIGHTS. EITHER DIV 4103 OR DIV 4104 MUST BE FLOWN AS A FOUR-PLANE.**
- C. STUDENT MUST HAVE ONE DIVISION TAKEOFF RUNNING/CV RENDEZVOUS AND ONE DIVISION BREAK PRIOR TO DIV 4104 (A THREE-PLANE RENDEZVOUS AND BREAK WILL MEET THIS REQUIREMENT.**
- D. THE FOLLOWING MANEUVERS SHALL BE FLOWN ON EVERY FLIGHT:**
- SECTION CROSSUNDER
 - BALANCED PARADE AND TURNS
 - BREAKUP AND RENDEZVOUS - 6 DESIRED
 - DIVISION CRUISE
 - SHUFFLE DIVISION
 - LANDINGS



ADMIN (CARD)



DIV 4101-4201

- **A/C - ATC C/S - CREW**
- **BRIEF / WALK / TAKEOFF / LAND TIMES**
- **ATC CLEARANCE / DD-175**
- **FUEL PLAN (J/B)**
- **LINE / T/O / ABORT / RPM**
- **COMM PLAN**
- **NAV PLAN**



DIV 4101-4201

ADMIN



- **LAUNCH**
 - **WEATHER / NOTAMS / TFR / BASH**
 - **PREFLIGHT / START / TAXI**
 - **ITO**
 - **SWAPPING OF CONTROLS**
 - **ENROUTE PROCEDURES**
 - **RADALT USAGE**

- **RTB**
 - **RECOVERY**
 - **DIVERTS**



CONDUCT



DIV 4101-4201

- **TIMS RESUME REVIEW**
- **PRACTICE:**
 - **CHECKLISTS/COMM/GROUND OPS**
 - **TAKEOFF/DEPARTURE/FLIGHT ADMIN**
 - **INDIVIDUAL/INTERVAL TAKEOFF**
 - **SECTION TAKEOFF**
 - **DIVISION RENDEZVOUS**
 - **PARADE**
 - **URNS/ECHOLON**
 - **SECTION CROSSUNDER**
 - **TCN RENDEZVOUS**
 - **BREAKUP AND RENDEZVOUS**
 - **UNDERRUN**
 - **CRUISE**
 - **SHUFFLE DIVISION**
 - **FORMATION LEAD (DIV41)**
 - **LEAD SECTION APPROACH/MAP (DIV41)**
 - **SECTION APPROACH/MAP AS WING**
 - **SECTION BREAK**
 - **DIVISION BREAK**
 - **PRECAUTIONARY APPROACH**
 - **VFR LANDING PATTERN**
 - **LANDING/TOUCH-AND-GO**



DIV 4101-4201

BLOCK MIF



CTS REF	MANEUVER	DIV4104
1	General Knowledge/Procedures	4+
2	Emergency Procedures	3+
3	Headwork/Situational Awareness	3+
4	Basic Airwork	4+
5	Mission Planning/Briefing/Debriefing	4+
6	Communications	4+
7	Ground Operations	4+
8	Flight Admin	4+
30	Individual/Interval Takeoff	4+
10		
30	Section Takeoff	4
32	Division Rendezvous	3+
32	Parade	3+
32	Turns/Echelon	3+
32	Section Crossunder	3+
32	TACAN Rendezvous	3
32	Breakup and Rendezvous	3+
32	Underrun	4
32	Cruise	3+
32	Shuffle Division	3+
31	Formation Lead	3
33	Lead Section Approach/Missed Approach	3
33	Section Approach/Missed Approach as Wing	4
32	Section Break	4
32	Division Break	4+
21	Precautionary Approach	3+
22	VFR Landing Pattern	4+
23	Landing/Touch-and-Go	4+



DIV 4101-4201

BLOCK MIF



CTS REF	MANEUVER	DIV4201
1	General Knowledge/Procedures	4+
2	Emergency Procedures	4+
3	Headwork/Situational Awareness	3+
4	Basic Airwork	4+
5	Mission Planning/Briefing/Debriefing	4+
6	Communications	4+
7	Ground Operations	4+
8	Flight Admin	4+
30 10	Individual/Interval Takeoff	4+
30	Section Takeoff	4
32	Division Rendezvous	3+
32	Parade	3+
32	Turns/Echelon	3+
32	Section Crossunder	4+
32	Breakup and Rendezvous	3+
32	Underrun	4
32	Cruise	3+
32	Shuffle Division	3+
31	Section Approach/Missed Approach as Wing	4
32	Section Break	4
32	Division Break	4
21	Precautionary Approach	1
22	VFR Landing Pattern	1
23	Landing/Touch-and-Go	1



DIV 4101-4201



COORDINATION

(ALL AIRCREW)



COORDINATION



DIV 4101-4201

ADMIN

- **ORM, TTO**
- **WX, NOTAMS**
- **TFR, BASH**
- **KNEEBOARD CARD REVIEW**
- **START, MARSHAL, TAXI, T/O, RNDV**
- **RTB**
- **3-PLANE CONTINGENCY**

TACADMIN

- **ALPHA CHECK**



DIV 4101-4201

MISSION



TYPICAL 4-PLANE SEQUENCE:

- SECTION CROSSUNDER**
- BALANCED PARADE TURNS, FINGER-TIP FORMATION**
- CROSSUNDER DASH-2 INTO THE SECTION**
- BREAKUP AND RENDEZVOUS (X 2)**
- CRUISE MANEUVERING**
- SHUFFLE DIVISION**



DIV 4101-4201

MISSION



3-PLANE CONTINGENCY SEQUENCE:

- PARADE TURNS IN ECHELON**
- SECTION CROSSUNDER (DASH-3 ONLY)**
- CROSSUNDER DASH-2 INTO THE SECTION**
- SECTION CROSSUNDER (DASH-2 AND 3 SIMULATING DASH-3 AND 4)**
- BREAKUP AND RENDEZVOUS (X 3 FUEL PERMITTING...1 WITH 4S INTERVAL)**
- CRUISE MANEUVERING**
- SHUFFLE DIVISION**



DIV 4101-4201

Emergencies



- **AIRCRAFT FALLOUT**
- **CLEAR ENGINE PROCEDURE**
- **ABORTED TAKEOFF**
- **RWY DEP / LOSS OF DIRECTIONAL CONTROL**
- **SYSTEM FAILURES/ EPs / CRM**
- **BIRD STRIKE/ MIDAIR**
- **RADIO/ ICS FAILURE**
- **LOSS OF NAVAIDS / LOST PLANE**
- **INADVERTENT IMC / LOST SIGHT / LCLS**
- **DISORIENTATION / VERTIGO**
- **HYPOXIA**
- **EJECTION (HIGH / LOW / GROUND)**
- **SAR / ON SCENE COMMANDER**
- **DIVERT(S) / BINGO FUEL TO DIVERT**